



Breakout Groups



Group & topics

Facilitator

Airborne Enabling Technologies:

Ron Swanda, GAMA

- Flightpath Guidance
- Flight Deck Systems
- Communication/Navigation/Surveillance Systems
- Transportation System Analysis and Assessment
- Ron Mauri, Volpe

- Economics
- Market demand behavior
- Technology performance metrics
- Technology Integration and Flight Evaluation
- Dres Zellweger, FAA

- Flight research aircraft and experiments
- Simulation experiments and modeling
- Airspace systems
- Airspace procedures



SATS Tech Integration & Flight Experiments



Purposes

Flight Experiments:

- Flight validation of enabling airborne technologies
 - Revolutionary Integrated Flight Deck
 - Automated Flightpath Management
 - Communication-Navigation-Surveillance Systems
- Integration of technologies for four operating capabilities
- Experimental Data Relevant to Certification and Procedural Issues
- Data for FAA and industry decision-makers

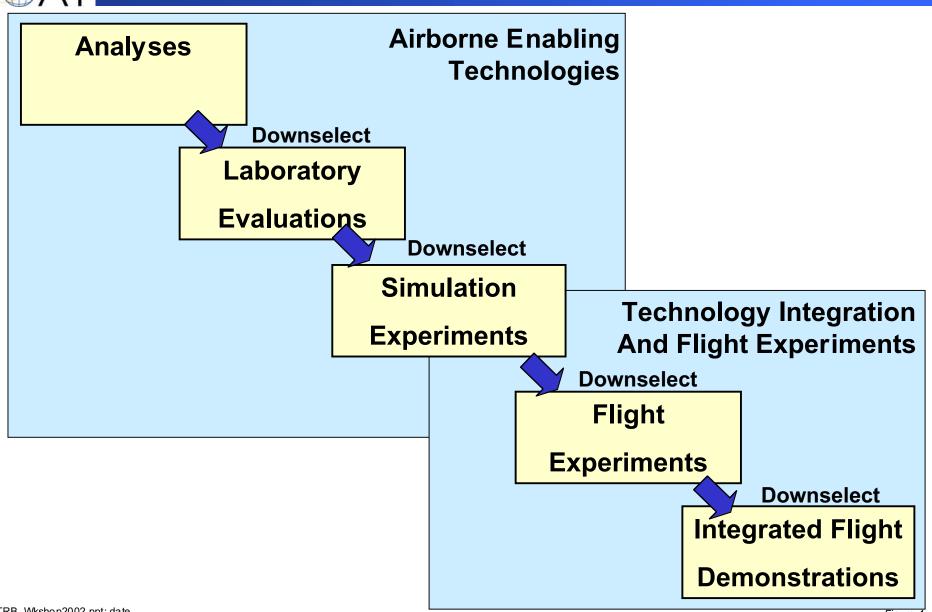
Demonstration:

- Show stakeholders and the public the operational readiness of technologies and public implications of on-demand, distributed air mobility (per 2010 Operational Concept).
- Data to support stakeholder decision-making on SATS deployment.



Role of Flight Experiments and Demonstrations





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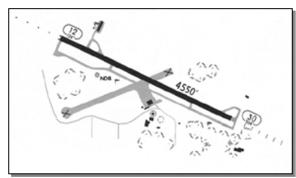
SATS Assets



- Airports
 - NASA Wallops Flight Test Facility/Airspace
 - FAA Technical Center, Flight Test Range
 - SATSLabs State-owned airports



- NASA Langley Research Aircraft (2)
 - N507NA, Lancair Columbia 300X
 - N501NA, Cirrus Design SR22X
- SATSLabs Partners' Aircraft
- General Aviation simulators
 - NASA Langley
 - FAA Tech Center
 - SATSLabs partners' facilities
- Desktop aircraft simulations









LaRC Research Aircraft





Lancair Colombia 300X

Equipage:

- PFD / MFD systems
- Datalink(s)
- GPS
- ADS-B
- AD-AHRS
- Databus
- Research Data Acquisition System





Digital Information Facility

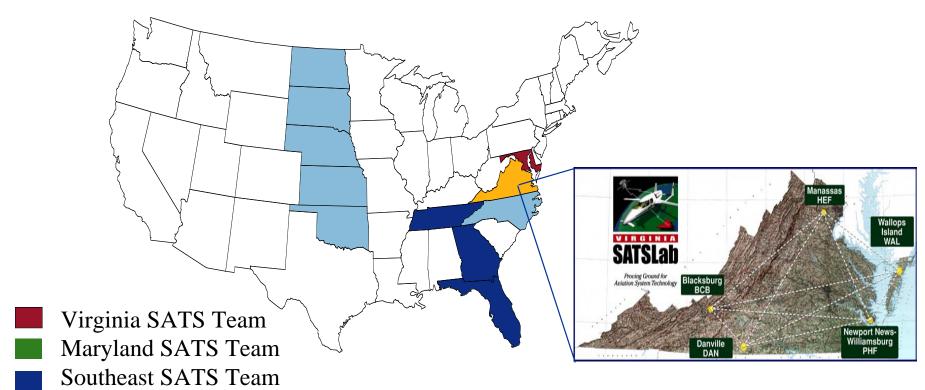






SATS Partners





North Carolina & Upper Great Plains SATS Team.

Working with our industry partners, we plan a series of flight experiments and demonstrations at multiple, distributed locations.



Audience for SATS Demonstration Flights

- State transportation authorities, policy-makers, and opinion leaders
 - AASHTO
 - NASAO
 - NGA
 - Legislative organizations (ALEC, NCSL, etc.)
- Industry leaders
- FAA, DOT
- Public



Breakout Group Charter



- The Technology Integration and Flight Evaluation Breakout Group will focus predominantly on the following questions:
 - Who should comprise the audience for the SATS 2005 Demonstration?
 - What information will those audiences require? For what purposes?
 - What else is required to prove SATS works?